

INFORMATION DISCLOSURE STATEMENT

Applicant : Andersson et al.
App. No : 10/802,970
Filed : March 16, 2004
For : AZACYCLIC COMPOUNDS
Examiner : Jason H. Johnsen
Art Unit : 1624

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application is a PTO/SB/08 Equivalent listing 132 references to be considered by the Examiner. Also enclosed are 119 foreign patent references and/or non-patent literature as listed on the Information Disclosure Statement.

With respect to Reference 16, an English translation was not available. However, U.S. Patent No. 5,025,013 (Reference 2) is believed to contain the relevant portions in English.

With respect to Reference 56, an English translation was not available. However, the relevant portion is believed to be the chemical structures shown throughout the article.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required. If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: March 20, 2007

By: 

Daniel Hart
Registration No. 40,637
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

SHEET 1 OF 8

Application No.	10/802,970
Filing Date	March 18, 2004
First Named Inventor	Carl-Magnus Andersson
Art Unit	1624
Examiner	Jason H. Johnson
Attorney Docket No.	ACADIA.014C2

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	4,138,492	02-06-1979	Noverola, et al.	
	2	5,025,013	06-18-1991	Barreau, et al.	
	3	5,214,055	05-25-1993	Peglion, et al.	
	4	5,461,066	10-24-1995	Gericke, et al.	
	5	5,621,010	04-15-1997	Sueda, et al.	
	6	5,795,894	08-18-1998	Shue, et al.	
	7	5,869,488	02-09-1999	Shue, et al.	
	8	5,912,132	06-15-1999	Brann	
	9	5,955,281	09-21-1999	Brann	
	10	6,107,324	08-22-2000	Behan, et al.	
	11	6,140,509	10-31-2000	Behan, et al.	
	12	6,150,393	11-21-2000	Behan, et al.	
	13	6,358,698	03-19-2002	Weiner, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹
	14	CA 984843	03-02-1976	John Wyeth & Brother Limited		
	15	EP 0 005 318 A1	11-14-1979	Janssen Pharm.		
	16	EP 0 379 441 A1	07-25-1990	Rhone-Poulenc Sante		
	17	EP 0 548 015 A1	06-23-1993	Ciba-Geigy AG		
	18	WO 97/08166 A1	03-06-1997	Schering Corporation		
	19	WO 97/11940 A1	04-03-1997	Eli Lilly and Company		
	20	WO 98/11128 A1	03-19-1998	Dr. Karl Thomae GMBH		
	21	WO 98/17646 A1	04-30-1998	Dr. Karl Thomae GMBH		
	22	WO 99/52927 A1	10-21-1999	Arena Pharmaceuticals, Inc.		
	23	WO 00/56335 A1	09-28-2000	The Regents of the University of California		
	24	WO 00/69810 A1	11-23-2000	Novo Nordisk A/S		
	25	WO 03/070246 A1	08-28-2003	Pfizer Products Inc.		

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	26	ADAM, et al. 1989. Effects of repeated ritanserin on middle-aged poor sleepers. <i>Psychopharmacology</i> , 99:219-221.	
	27	ADELL, et al. 2006. Strategies for producing faster acting antidepressants. <i>Drug Discovery Today</i> , 10(8):578-585.	
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	29	ALVISI, N. 1992. Sulla formazione di derivati pirazolidici delle cloridrini e dalla tribromidrina della glicerina ordinaria, <i>Gazz. Chem. Ital.</i> 22:156-168.	
	30	ANTILLA, et al. 2001. Copper-catalyzed coupling of arylboronic acids and amines. <i>Organic Letters</i> , 3(13):2077-2079.	
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	39	BIRKMAYER, et al. 1974. Nucleus ruber and L-Dopa psychosis: Biochemical post-mortem findings. <i>Journal of Neural Transmission</i> , 35:93-116.	
	40	BLAKLEY, et al. 2001. Bidirectional changes in ethanol consumption in rats with site-specific antisense down-regulation of 5-hydroxytryptamine _{2A} receptors in brain. <i>The Journal of Pharmacology and Experimental Therapeutics</i> , 299(1):277-289.	
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	42	BLIER, et al. 2005. Potential mechanisms of action of atypical antipsychotic medications in treatment-resistant depression and anxiety. <i>J. Clin. Psychiatry</i> , 66(suppl 8):30-40.	

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	43	BROWN, et al. 1924. Catalytic alkylation of aniline, <i>J. Am. Chem. Soc.</i> , 46(8):1836-1839.	
	44	BÜCHI, et al. 1969. Synthesis of (±)-nuciferal. <i>J. Org. Chem.</i> , 34(4):1122-1123.	
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	46	BUU-HOI, et al. 1951. Further studies in the alkylation of phenols and thiophenols, <i>J. Org. Chem.</i> , 16:988-994.	
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	49	CATARZI, et al. 2001. Synthesis, ionotropic glutamate receptor binding affinity, and structure-activity relationships of a new set of 4,5-dihydro-8-heteroaryl-4-oxo-1,2,4-triazolo[1,5-e]quinoxaline-2-carboxylates analogues of TQX-173. <i>J. Med. Chem.</i> , 44:3157-3165.	
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	55	EMERSON, et al. 1938. The reductive alkylation of aniline. <i>J. Am. Chem. Soc.</i> , 60:2023-2025.	
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	57	EVERETT, et al. 1970. L-Dopa: Effect on concentrations of dopamine, norepinephrine, and serotonin in brains of mice. <i>Science</i> , 168:849-850.	
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	61	FRIEDMAN, et al. 2000. Atypical antipsychotics in the treatment of drug-induced psychosis in Parkinson's disease. <i>Movement Disorders</i> , 15(2):201-211.	
	62	GAINETDINOV, et al. 2001. Genetic animal models: Focus on schizophrenia. <i>Trends in Neurosciences</i> , 24(9):527-533.	
	63	GAMMA, et al. 2000. 3,4-Methylenedioxymethamphetamine (MDMA) modulates cortical and limbic brain activity as measured by [¹⁸ O]-PET in healthy humans. <i>Neuropsychopharmacology</i> , 23(4):388-395.	
	64	GAWLEY, R. E., & Aubé, J. 1996. <i>Principles of Asymmetric Synthesis</i> . New York: Pergamon.	
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	66	GOOSEN, et al. 2001. Palladium-catalyzed synthesis of aryl ketones from boronic acids and carboxylic acids or anhydrides. <i>Angew. Chem. Int. Ed.</i> , 40:3458-3460.	
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	79	KWONG, et al. 2003. Mild and efficient copper-catalyzed amination of aryl bromides and primary alkylamines. <i>Organic Letters</i> , 5(6):793-796.	
	80	LANDINI, et al. 1974. A convenient synthesis of primary and secondary dialkyl and aryl alkyl sulfides in the presence of phase-transfer catalysts. <i>Synthesis</i> , pp. 565-566.	
	81	LANDOLT, et al. 1999. Serotonin-2 receptors and human sleep: Effect of a selective antagonist on EEG power spectra. <i>Neuropsychopharmacology</i> , 21(3):455-466.	
	82	LEYSEN, et al. 1978. Serotonergic component of neuroleptic receptors. <i>Nature</i> , 272:168-171.	
	83	LI, G. Y. 2002. Highly active, air-stable palladium catalysts for the C-C and C-S bond-forming reactions of vinyl and aryl chlorides: Use of commercially available [(t-Bu) ₂ P(OH)] ₂ PdCl ₂ [(t-Bu) ₂ P(OH)PdCl ₂] and [(t-Bu) ₂ PO...H...OP(t-Bu)] ₂ PdCl ₂ as catalysts. <i>J. Org. Chem.</i> , 67:3643-3650.	
	84	LIECHTI, et al. 2001. Effects of MDMA (ecstasy) on prepulse inhibition and habituation of startle in humans after pretreatment with Citalopram, Haloperidol, or Ketanserin. <i>Neuropsychopharmacology</i> , 24(3):240-252.	
	85	MAREK, et al. 2003. Synergistic action of 5-HT _{2A} antagonists and selective serotonin reuptake inhibitors in neuropsychiatric disorders. <i>Neuropsychopharmacology</i> , 28:402-412.	
	86	MAREK, et al. 2005. The selective 5-HT _{2A} receptor antagonist M100907 enhances antidepressant-like behavioral effects of the SSRI fluoxetine. <i>Neuropsychopharmacology</i> , 30:2205-2215.	
	87	MAVUNKEL, et al. 1996. Synthesis and characterization of pseudopeptide bradykinin B2 receptor antagonists containing the 1,3,8-triazaspiro[4.5]decan-4-one ring system. <i>J. Med. Chem.</i> , 39:3169-3173.	
	88	MAYER, et al. 2003. Ritanserin improves sleep quality in narcolepsy. <i>Pharmacopsychiatry</i> , 364:150-155.	
	89	MELTZER, et al. 1995. Plasma clozapine levels and the treatment of L-DOPA-induced psychosis in Parkinson's disease. <i>Neuropsychopharmacology</i> , 12(1):39-45.	
	90	MENG, et al. 1991. Synthetic approaches toward glidobamine, the core structure of the glidobactin antibiotics. <i>Tetrahedron</i> , 47(32):62510-6264.	
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	94	MOULIGNIER, A. 1994. Récepteurs centraux de la sérotonine principaux aspects fondamentaux et fonctionnels application thérapeutiques. <i>Rev. Neurol.</i> , 150:3-15.	✓ (Abstract)
	95	MOUNÉ, et al. 1997. Total synthesis of dolatrienolic acid: A subunit of dolastatin 14. <i>J. Org. Chem.</i> , 62:3332-3339.	

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	96	MULLEN et al. 2000. (-)-Spiro[1-azabicyclo[2.2.2]octane-3,5'-oxazolidin-2'-one], a conformationally restricted analogue of acetylcholine, is a highly selective full agonist at the $\alpha 7$ nicotinic acetylcholine receptor. <i>J. Med. Chem.</i> , 43:4045-4050.	
	97	MURI, et al. 1998. Synthesis of new benzylic ethers of oximes derived from 1-phenyl-pyrazole compounds. <i>Synthetic Communications</i> , 28(7):1299-1321.	
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	99	NIGAM, et al. 1957a. Studies with acetylenes. Part II. Some reactions of Grignard reagents with propargylic halides. Model linalic and linolonic acid systems. <i>J. Chem. Soc.</i> , pp. 3868-3873.	
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	101	NORDSTROM, et al. 1993. High 5-HT ₂ receptor occupancy in clozapine treated patients demonstrated by PET. <i>Psychopharmacology</i> , 110:365-367.	
	102	OGAWA, et al. 2005. Effects of R-102444 and its active metabolite R-96544, selective 5-HT _{2A} receptor antagonists, on experimental acute and chronic pancreatitis: Additional evidence for possible involvement of 5-HT _{2A} receptors in the development of experimental pancreatitis. <i>European Journal of Pharmacology</i> , 521:156-163.	
	103	OLAH, et al. 1956. Notiz über die N-formylierung von aminen mit formylfluorid. <i>Chem. Ber.</i> , 89:2211-2212.	
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	105	PAIVA, et al. 1988. Effects of ritanserin on sleep disturbances of dysthymic patients. <i>Psychopharmacology</i> , 96:395-399.	
	106	PATEL, et al. 2004. The highly selective 5-hydroxytryptamine (5-HT) _{2A} receptor antagonist, EMD 281014, significantly increases swimming and decreases immobility in male congenital learned helpless rats in the forced swim test. <i>Synapse</i> , 52:73-75.	
	107	PIERCE, et al. 1995. 5-hydroxytryptamine-induced synovial plasma extravasation is mediated via 5-hydroxytryptamine _{2A} receptors on sympathetic efferent terminals. <i>The Journal of Pharmacology and Experimental Therapeutics</i> , 275(1):502-508.	
	108	POLIAK, et al. 1999. Clozapine in drug-induced psychosis in Parkinson's disease. <i>The Lancet</i> , 353:2041-2042.	
	109	READ, W. T. 1922. Researches on hydantoin. Synthesis of the soporific, 4,4-phenylethyl-hydantoin(hirvanol). <i>J. Am. Chem. Soc.</i> , 44:1746-1755.	
	110	RICCI, A. 2000. <i>Modern Animation Methods</i> . New York: Wiley-VCH.	
	111	RICE, et al. 1955. Raney nickel catalyzed N-alkylation of aniline and benzidine with alcohols. <i>J. Am. Chem. Soc.</i> , 77:4052-4054.	
	112	RUBIRALTA, M., Giralt, E., & Diez, A. 1991. <i>Studies in Organic Chemistry 43. Piperidine: Structure, Preparation, Reactivity and Synthetic Applications of Piperidine and its Derivatives</i> . New York: Elsevier.	

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Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	10/802,970
	Filing Date	March 16, 2004
	First Named Inventor	Carl-Magnus Andersson
	Art Unit	1624
	Examiner	Jason H Johnsen
(Multiple sheets used when necessary)	Attorney Docket No.	ACADIA.014C2
SHEET 8 OF 8		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
	130	YANG, et al. 1999. Palladium-catalyzed amination of aryl halides and sulfonates, <i>Journal of Organometallic Chemistry</i> , 576:125-146.	
	131	YASUHARA, et al. 2000. An activated phosphate for an efficient amide and peptide coupling reagent. <i>J. Chem. Soc., Perkin Trans. 1</i> , 17:2901-2902.	
	132	YIN, et al. 2002. Pd-catalyzed intermolecular amidation of aryl halides: The discovery that xantphos can be trans-chelating in a palladium complex. <i>J. Am. Chem. Soc.</i> , 124:8043-8048.	

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